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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/781,327	02/13/2001	Hironao Hakogi	1614.1124	9065	
21171	7590 06/27/2003				
STAAS & HALSEY LLP			EXAMINER		
	ORK AVENUE, N.W.	PAK, SUNG H			
WASHINGIC	ON, DC 20005		ART UNIT PAPER NUMBER		
			2874		
			DATE MAILED: 06/27/2003	DATE MAILED: 06/27/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n No.		Applicant(s)				
	09/781,327	F	HAKOGI ET AL.				
Office Action Summary	Examiner	<i>A</i>	Art Unit				
	Sung H. Pak		2874				
The MAILING DATE of this communication app Period for Reply	oears on the cover	sneet with the cor	respondence ad	aress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 30 April 2003.							
2a) This action is FINAL . 2b) ⊠ Th	is action is non-fir	nal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirer	nent.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
, _ , ,							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲	Interview Summary (F Notice of Informal Pal Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/30/2003 has been entered.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mesaki et al (US 6,217,231 B1) in view of Enochs et al (US 4,818,056).

Mesaki et al was cited in the previous office action.

Mesaki et al disclose an optical module comprising a ferrule having a slope end surface supporting an optical fiber penetrated therethrough (Figs. 23c, 23d); a photodetector mounted on the ferrule, and optically coupled directly with the optical fiber (Figs. 23c, 23d); a module substrate supporting the ferrule, and a resin package covering the ferrule so that an end of the ferrule protrudes from the resin package (Figs. 21, 22a); electronic parts mounted on the module substrate (Fig. 21); engagement

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protrusions extending along side surfaces of the resin package, to be engaged with an optical connector (Fig. 21).

While Mesaki et al teach the mounting of the photodetector on the ferrule surface, they do not teach the mounting of the photodetector on the end surface. On the other hand, Enochs et al teach mounting of the photodiode directly on the end surface of the ferrule (Fig. 3), where the photodiode is smaller than an area of the ferrule end surface. Enochs et al explicitly teach that such an arrangement is advantageous because it improves optical coupling between the optical device and the optical fiber (column 1 lines 5-45).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Mesaki et al device to have photodetector directly attached to the ferrule structure as taught by Enochs et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sung H. Pak whose telephone number is (703) 308-4880. The examiner can normally be reached on Monday - Thursday : 6:30am-5:00pm.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Sung H. Pak Examiner Art Unit 2874

sp

June 16, 2003

Rodney Bovernick
Supervisory Patent Examins
Technology Center 2970